

## ABSTRACT

For the purpose of providing an image processing method for efficiently performing filtering, a local region containing a pixel of interest is defined in a plurality of modes in an original image (502); sequentially for the region in the plurality of modes, the variance of pixel values is obtained and a decision is made whether the value of the variance falls within a predetermined range (504, 506, 508 512, 514); and an image is produced using as a new pixel value for the pixel of interest an average value of pixel values of the region for which the value of the variance first falls within the range (508, 510, 524).